

| Nominal Operating Power | 110 mW |
| :---: | :---: |
| Max. applied voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | $120 \% \mathrm{~V}$ of nominal voltage |
| Min. switching capacity (reference value) | 1 mA 5 V DC |
| Insulation distance (Between contact and coil) | Clearance: Min. 5.29 mm .208inch Creepage distance: Min. 5.35 mm . 211 inch |
| Insulation resistance (Initial) | Min.1,000M (at 500V DC) Measurement at same location as "Breakdown voltage" section. |
| Breakdown voltage (Between open contact) (Initial) | 1,000 Vrms for 1 min . (Detection current: 10 mA ) |
| Breakdown voltage (Between contact and coil) (Initial) | 3,000 Vrms for 1 min . (Detection current: 10 mA ) |
| Surge breakdown voltage (Between contact and coil) (Initial) | 6,000 V |
| Operate time (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | Max.10ms (at Nominal coil voltage, excluding contact bounce time) (Initial) |
| Release time (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | Max. 5 ms (at Nominal coil voltage, excluding contact bounce time) (without diode) (Initial) |
| Shock resistance (Functional) | Min. $147 \mathrm{~m} / \mathrm{s}^{2}$ (Half-wave pulse of sine wave: 11 ms ; detection time: 10 s.$\left.\right)$ |
| Shock resistance (Destructive) | Min. $980 \mathrm{~m} / \mathrm{s}^{2}$ (Half-wave pulse of sine wave: 6 ms .) |
| Vibration resistance (Functional) | 10 to 55 Hz at double amplitude of 2.5 mm (Detection time: 10 s. ) |
| Vibration resistance (Destructive) | 10 to 55 Hz at double amplitude of 3.5 mm |
| Expected life (Mechanical) | Min. $2 \times 10^{7}$ (at 180 times $/ \mathrm{min}$ ) |
| Expected life (Electrical) | Min. $10^{5}$ (3A 250V AC, 30V DC, resistive load) Min. $5 \times 10^{4}$ (5A 250V AC, 30V DC, resistive load) (at 20 times $/ \mathrm{min}$ ) Operating frequency of 5A 250V AC is 6 times $/ \mathrm{min}$. (ON : OFF $=1 \mathrm{~s}: 9 \mathrm{~s}$ ) |
| Conditions | Ambient temperature: $-40^{\circ} \mathrm{C}$ to $90^{\circ} \mathrm{C}-40^{\circ} \mathrm{F}$ to $194^{\circ} \mathrm{F}$; Humidity: 5 to $85 \%$ R.H. (Not freezing and condensing at low temperature) |
| Max. operating speed | 20 times $/ \mathrm{min}$. (at nominal switching capacity) <br> Operating frequency of 5A 250V AC is 6 times $/ \mathrm{min}$. ( $\mathrm{ON}: \mathrm{OFF}=1 \mathrm{~s}: 9 \mathrm{~s}$ ) |
| Unit weight | Approx. 3g 15 oz |
| Operating function | Single Side Stable Type |
| Dimensions |  |
| A List of Part Numbers in This Series |  |
| Information on Compliance with Standards |  |
| Accessories (Option) |  |

## Customer Satisfaction Survey Questionnaire

Please help us improve
Panasonic Automation Controls
website by completing our online survey

We are always looking to make
our website more user-friendly
and comfortable for you
We aim to use feedback positively to improve our website, please give us comments or requests you may

## Information on Compliance with Standards

| Standard Name | Status |  | Information on Compliance |
| :---: | :---: | :---: | :---: |
| UL/C-UL | Approval | File No. | E43149 |
|  |  | Rating | 5A 250V AC Resistive $40^{\circ} \mathrm{C} 50,000$ cycles 5A 250V AC Resistive $90^{\circ} \mathrm{C} 10,000$ cycles 5A 30V DC General use $40^{\circ} \mathrm{C} 50,000$ cycles 5A 30V DC 3A 250V AC General use $90^{\circ} \mathrm{C} 10,000$ cycles 3A 250V AC Resistive $40^{\circ} \mathrm{C} 100,000$ cycles 3 3 30V DC General use $40^{\circ} \mathrm{C} 100,000$ cycles B300, R300 Pilot Duty $40^{\circ} \mathrm{C} 6,000$ cycles <br> Insulation distance(between contact and coil) Clearance distance:5.29mm Cleepage distance:5.35mm |
|  |  | Remarks | E479891 <br> Class I, Division2, Groups A, B, C, D Hazardous Location (ANSI/ISA 12.12.01-2015, CAN/CSA C22.2 No.213-15) |
|  |  | Last update | December 21, 2015 |
| CSA | N/A | File No. | - |


*The "Mark on products" field shows the standards' certificate type marked to products. Note that not all certified products have a certificate mark affixed to them.

Dimensions
A List of Part Numbers in This Series
Accessories (Option)

Please take a few moments to answer these questions about our website. Thank you

## Accessories (Option)



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CONTACT US If you have any questions, please select the option below to contact us or find answers.

| Easy to understand | $:$ Oyes $\bigcirc$ no |
| :--- | :--- |
| Easy to find the information you need | $: \bigcirc y e s \bigcirc$ no |
| Practical for your work | $:$ Oyes $\bigcirc$ no |

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A Business > Industrial Devices > Automation Controls Top > Components \& Devices > Relays > Power Relays (Over 2A) > PA-N Relays > Part Number > APAN3106


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